OPINION

Equivalence of energy and time

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Jöge FM. Equivalence of energy and time. J Pure Appl Math. 2023; 7(2):139

INTRODUCTION

A formula is developed that shows the equivalence of energy and time.

Derivation of a formula that describes the equivalence of energy and time.

A formula for calculation dark energy was developed under the title "Calculation of Dark Energy and Dark Matter". It is:

$$E_d = h t_u / t_p^2$$

This formula is now expanded below to

$$E = \left(h/t_p^2 \right) \cdot t$$

Starting from E = h/t is obtained by substituting t_p for t

 $E_p = h / t_p$ for the energy in the Planck time.

For the energy per one second we get:

 $E_1 = h / t_p^2$ and for energy in time t $E = (h/t_p^2) \cdot t$

This is the general formula for the equivalence of energy and time. If you use the age of the universe for the time t, you get the amount of dark energy [1-2].

Definition of symbols used in formulas

- E = energy
- Ed = dark energy

t = time

 t_u = age of the universe

 t_p = Planck time

h = Planck quantum action

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